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                COPPERLIT now available on STN
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        Nov 29
                DWPI revisions to NTIS and US Provisional Numbers
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        Nov 30
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                WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
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                WELDASEARCH now available on STN
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        Dec 17
                New fields for DPCI
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        Dec 19
                CAS Roles modified
NEWS 31
        Dec 19
                1907-1946 data and page images added to CA and CAplus
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              CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
             AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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MISSING OPERATOR DEFICIENT) WITH
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L1 99460 (NUDE OR SCID OR IMMUNODEFICIENT) AND (RODENT OR MOUSE)

=> S (tumor cells) and (peripheral or Intravenous)
L2 23743 (TUMOR CELLS) AND (PERIPHERAL OR INTRAVENOUS)

=> S L1 and L2

L4 1643 L1 AND L2

=> S L4 and L3

L5 489 L4 AND L3

=> S L4 same L3
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=> S "L4" same "L3"
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=> S 'L4' same 'L3'
             0 'L4' SAME 'L3'
=> S (L4) same (L3)
MISSING OPERATOR L4) SAME
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=> S L5 and (anti-IL-2 receptor antibody)
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L2
          23743 S (TUMOR CELLS) AND (PERIPHERAL OR INTRAVENOUS)
L3
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           1643 S L1 AND L2
L5
            489 S L4 AND L3
L6
              0 S "L4" SAME "L3"
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              0 S L5 AND (ANTI-IL-2 RECEPTOR ANTIBODY)
             23 S L5 AND (NK CELLS)
L9
=> Dup rem L9
PROCESSING COMPLETED FOR L9
L10
             10 DUP REM L9 (13 DUPLICATES REMOVED)
=> Dup rem L5
PROCESSING COMPLETED FOR L5
L11
            226 DUP REM L5 (263 DUPLICATES REMOVED)
=> Display L10 IBIB ABS TOTAL
L10 ANSWER 1 OF 10
                        MEDLINE
                                                         DUPLICATE 1
ACCESSION NUMBER:
                    2000242958
                                   MEDLINE
DOCUMENT NUMBER:
                    20242958
                              PubMed ID: 10782864
TITLE:
                    Immunotherapy with vaccines combining MHC class II/CD80+
                    tumor cells with interleukin-12 reduces
                    established metastatic disease and stimulates
                    immune effectors and monokine induced by interferon gamma.
AUTHOR:
                    Pulaski B A; Clements V K; Pipeling M R; Ostrand-Rosenberg
CORPORATE SOURCE:
                    Department of Biological Sciences, University of Maryland,
```

Baltimore 21250, USA.

CONTRACT NUMBER: R01CA52527 (NCI)

SOURCE: CANCER IMMUNOLOGY, IMMUNOTHERAPY, (2000 Apr) 49 (1) 34-45.

Journal code: CN3; 8605732. ISSN: 0340-7004.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200005

ENTRY DATE: Entered STN: 20000518

Last Updated on STN: 20000518 Entered Medline: 20000509

Because they are difficult to treat, animal models of widespread, AB established metastatic cancer are rarely used to test novel immunotherapies. Two such mouse models are used in this report to demonstrate the therapeutic efficacy and to probe the mechanisms of a novel combination immunotherapy consisting of the cytokine interleukin-12 (IL-12) combined with a previously described vaccine based on MHC class II, CD80-expressing cells. BALB/c mice with 3-week established primary 4T1 mammary carcinomas up to 6 mm in diameter and with extensive, spontaneous lung metastases show a significant reduction in lung metastases following a 3-week course of immunotherapy consisting of weekly injections of the cell-based vaccine plus injections of IL-12 three times per week. C57BL/6 mice with 7-day established intravenous B16 melF10 lung metastases show a similar response following immunotherapy with IL-12 plus a vaccine based on B16 MHC class II, CD80-expressing cells. In both systems the combination therapy of cells plus IL-12 is more effective than IL-12 or the cellular vaccine alone, although, in the 4Tl system, optimal activity does not require MHC class II and CD80 expression in the vaccine cells. The cell-based vaccines were originally designed to activate tumor-specific CD4+ T lymphocytes specifically and thereby provide helper activity to tumor-cytotoxic CD8+ T cells, and IL-12 was added to the therapy to facilitate T helper type 1 lymphocyte (Th1) differentiation. In vivo depletion experiments for CD4+ and CD8+ T cells and natural killer (NK) cells and tumor challenge experiments in beige/ nude/XID immunodeficient mice demonstrate that the therapeutic effect is not exclusively dependent on a single cell population, suggesting that T and NK cells are acting together to optimize the response. IL-12 may also be enhancing the immunotherapy via induction of the chemokine Mig (monokine induced by interferon gamma), because reverse PCR experiments demonstrate that Mig is present in the lungs of mice receiving therapy and is most likely synthesized by the tumor cells. These results demonstrate that the combination therapy of systemic IL-12 and a cell-based vaccine is an effective agent for the treatment of advanced, disseminated metastatic cancers in experimental mouse models and that multiple effector cell populations and anti-angiostatic factors are likely to mediate the effect.

L10 ANSWER 2 OF 10 MEDLINE DUPLICATE 2

ACCESSION NUMBER: 1999192615 MEDLINE

DOCUMENT NUMBER: 99192615 PubMed ID: 10090831

TITLE: Early events of hepatic metastasis formation in

mice: role of Kupffer and NK-

cells in natural and interferon-gamma-stimulated

defense.

AUTHOR: Rushfeldt C; Sveinbjornsson B; Seljelid R; Smedsrod B

CORPORATE SOURCE: Department of Experimental Pathology, Institute of Medical

Biology, Tromso, N-9037, Norway.

SOURCE: JOURNAL OF SURGICAL RESEARCH, (1999 Apr) 82 (2) 209-15.

Journal code: K7B; 0376340. ISSN: 0022-4804.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200008

ENTRY DATE: Entered STN: 20000811

Last Updated on STN: 20000811 Entered Medline: 20000801

AB Surgical manipulation of a tumor may result in increased influx of tumor cells into the systemic and portal circulation and give rise to formation of metastases. In addition, major surgery has been reported to cause profound immunosuppression. In an attempt to increase the host-antitumor immune mechanisms following surgery we have studied the effect of preoperative administration of interferon-gamma, related to the antimetastatic effects of Kupffer cells (KC) and natural killer cells (NK-cells) in the early phase of liver metastasis formation. Colon carcinoma cells were injected into the superior mesenteric vein of syngeneic mice and after 17 days metastases were quantified by weight, number, and uptake of [125I]iododeoxyuridine. Unstimulated control mice developed 10.5 surface nodules per liver 17 days following injection of colon carcinoma cells into the superior mesenteric vein of syngeneic mice. This figure was only 2.6 in mice stimulated with a single dose of 1000 IU IFN-gamma 4 h prior to inoculation of tumor cells. Administration of GdCl3, which is reported to deplete and block the function of Kupffer cells, 24 h prior to tumor cell inoculation resulted in a 5-fold tumor mass increase relative to control. Injection of anti-asiolo-GM1 antiserum, which eliminates the hepatic NKcells, induced a 10-fold increase in tumor mass. These results indicate an important early antimetastatic function of hepatic NK -cells and KC and that presurgical administration of IFN-gamma may be important for eliminating circulating tumor cells and inhibiting development of residual tumors. Copyright 1999 Academic Press.

L10 ANSWER 3 OF 10 MEDLINE DUPLICATE 3

ACCESSION NUMBER: 97303203 MEDLINE

DOCUMENT NUMBER: 97303203 PubMed ID: 9159146

TITLE: A lymphocyte-activating monoclonal antibody induces

regression of human tumors in severe combined

immunodeficient mice.

AUTHOR: Hardy B; Kovjazin R; Raiter A; Ganor N; Novogrodsky A

CORPORATE SOURCE: Felsenstein Medical Research Center, Rabin Medical Center,

Belinson Campus, Petah Tikva 49100, Israel.

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE

UNITED STATES OF AMERICA, (1997 May 27) 94 (11) 5756-60.

Journal code: PV3; 7505876. ISSN: 0027-8424.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199706

ENTRY DATE: Entered STN: 19970630

Last Updated on STN: 19970630 Entered Medline: 19970619

AB Monoclonal antibodies were raised against Daudi B-lymphoblastoid cell line membranes. An mAb (BAT) was selected for its ability to stimulate human and murine lymphocyte proliferation. BAT induced cytotoxicity in human and murine lymphocytes against natural killer cell-sensitive and -resistant tumor cell lines. A single intravenous administration of BAT to mice that had been inoculated with various murine tumors (e.g., B16 melanoma, 3LL carcinoma, and methylcholanthrene fibrosarcoma) resulted in striking antitumor effects as manifested by complete tumor regression

and prolonged survival of the treated mice. BAT exhibited a diminished but significant antitumor effect in athymic nude mice, which are deficient in T lymphocytes, and in beige mice, which are deficient in NK cells. Furthermore, selective depletion of T or NK cells in mice reduced the response to the antitumor effect of BAT. These data indicate a dual role for T and NK cells in mediating the antitumor activity of BAT. We report here on the antitumor activity of BAT mAb on human tumor xenografts in mice. BAT demonstrated an antitumor effect in nude mice bearing human colon carcinoma (HT29) xenografts. It failed, however, to inhibit established lung metastases in severe combined immunodeficient (SCID) mice that had been inoculated (i.v.) with SK28 human melanoma. Engraftment of human lymphocytes into SCID mice bearing human melanoma xenografts rendered them responsive to the antitumor effect of BAT. The efficacy of BAT in the regression of human tumors by activation of human lymphocytes indicates its potential clinical use.

L10 ANSWER 4 OF 10 MEDLINE DUPLICATE 4

ACCESSION NUMBER:

DOCUMENT NUMBER:

96427371 MEDLINE 96427371

TITLE:

PubMed ID: 8830735 Introduction of the interferon gamma gene into

mouse T lymphoma cells with low MHC class

I-expression results in selective induction of H-2Dk and

concomitant enhanced metastasis.

AUTHOR:

Geldhof A B; VandenDriessche T; Opdenakker G; De Baetselier

CORPORATE SOURCE:

Laboratory of Cellular Immunology, Flemish Interuniversity Institute for Biotechnology, Free University of Brussels,

Belgium.

SOURCE:

CANCER IMMUNOLOGY, IMMUNOTHERAPY, (1996 Jul) 42 (6) 329-38.

Journal code: CN3; 8605732. ISSN: 0340-7004.

PUB. COUNTRY:

GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199611

ENTRY DATE:

Entered STN: 19961219

Last Updated on STN: 19961219 Entered Medline: 19961104

AB Interferon-gamma (IFN gamma)-induced up-regulation of MHC class I expression on tumor cells can induce a potent CD8-mediated antitumor response. Consequently, many investigators have proposed IFN gamma gene transfection as a means to immunogenize tumor cells and to vaccinate against metastatic disease. In this study, we demonstrate that transfection of the IFN gamma gene in a BW5147 variant (LiDlo) with low MHC class I expression results in a selective induction of H-2Dk but unaltered H-2Kk expression. In earlier reports we demonstrated a positive correlation between H-2Dk expression and enhanced metastatic potential of BW variants. In accordance with these observations, we observed that intravenous inoculation of LiDlo(IFN gamma) variants into syngeneic AKR mice led to enhanced metastasis as compared to parental LiDlo and LiDlo(neo) control transfectants. Tumor cells, derived from local subcutaneous tumors or sporadic metastases from mice inoculated with LiDlo tumor cells, were found to up-regulate H-2Dk selectively. Anti-asialoGM1 treatment of AKR mice allowed rapid experimental metastasis formation by the LiDlo and LiDlo(neo) variants, indicating that natural killer (NK) cells control the metastatic behavior of these tumor cells. This was corroborated by in vitro

cytotoxicity experiments, demonstrating the LiDlo and LiDlo(neo) tumor cells were NK-sensitive, while the BW IFN gamma transfectants became resistant to lymphokine-activated killer cells and poly(I).poly(C)-induced NK cells. We thus conclude that (a) IFN gamma up-regulates selectively the MHC class I antigen H-2Dk, (b) H-2Dk governs susceptibility towards NK cells, and (c) NK susceptibility determines the experimental metastatic behavior of BW tumor cells.

L10 ANSWER 5 OF 10 MEDLINE DUPLICATE 5

ACCESSION NUMBER: DOCUMENT NUMBER:

96332590 MEDLINE

96332590 PubMed ID: 8760590

TITLE:

Novel metastasis model of human lung cancer in

SCID mice depleted of NK

cells.

apphients AUTHOR: Yano S; Nishioka Y; Izumi K; Tsuruo T; Tanaka T; Miyasaka

M; Sone S

CORPORATE SOURCE: Third Department of Internal Medicine, University of

Tokushima School of Medicine, Japan.

INTERNATIONAL JOURNAL OF CANCER, (1996 Jul 17) 67 (2) SOURCE:

211-7.

Journal code: GQU; 0042124. ISSN: 0020-7136.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE) LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199609

ENTRY DATE: Entered STN: 19960924

metastasis of human lung cancer.

Last Updated on STN: 19970203

Entered Medline: 19960916

AB Metastasis is a critical problem in the treatment of human lung cancer. Thus, a suitable animal model of metastasis of human lung cancer is required for in vivo biological and preclinical studies. In this study, we tried to establish a suitable model for this, using SCID mice. Neither human SCLC H69/VP cells (5 x 10(6)) nor squamous-cell carcinoma RERF-LC-AI cells (1 x 10(6)), injected through a tail vein, formed metastases in untreated SCID mice. Pre-treatment of SCID mice with anti-asialo GM1 serum resulted in only a few metastases of H69/VP cells, but pre-treatment with anti-mouse IL-2 receptor beta chain Ab (TM-beta 1) resulted in numerous lymph-node metastases 56 days after tumor inoculation. H69/VP-M cells, an in vivo-selected variant line, formed significant numbers of lymph-node metastases even in SCID mice pre-treated with anti-asialo GM1 serum. SCID mice depleted of NK cells by treatment with TM-beta 1 showed different patterns of metastasis when inoculated intravenously with the 2 different human lung cancer cell lines (H69/VP and RERF-LC-AI cells): H69/VP cells formed metastases mainly in systemic lymph nodes and the liver, whereas RERF-LC-AI cells formed metastases mainly in the liver and kidneys, with only a few in lymph nodes. A histopathological study showed that the metastatic colonies consisted of cancer cells. The numbers of metastatic colonies formed by the 2 cell lines increased with the number of cells inoculated. TM-beta 1 treatment of SCID mice efficiently removed NK cells from peripheral blood for at least 6 weeks, whereas, after treatment of the mice with anti-asialo GM1 serum, NK cells were recovered within 9 days. These findings suggest that NK-cell-depleted SCID mice may be useful as a model in biological and pre-clinical studies on

L10 ANSWER 6 OF 10 MEDLINE DUPLICATE 6

ACCESSION NUMBER: 96400411 MEDLINE

DOCUMENT NUMBER: 96400411 PubMed ID: 8806787

TITLE: Role of natural killer cells on engraftment of human

lymphoid cells and on metastasis of human T-lymphoblastoid leukemia cells in C57BL/6J-scid

mice and in C57BL/6J-scid bg mice

AUTHOR: Christianson S W; Greiner D L; Schweitzer I B; Gott B;

Beamer G L; Schweitzer P A; Hesselton R M; Shultz L D

CORPORATE SOURCE: Jackson Laboratory, Bar Harbor, Maine.

CONTRACT NUMBER: AI 30389 (NIAID)

CA 20408 (NCI) CA34196 (NCI)

SOURCE: CELLULAR IMMUNOLOGY, (1996 Aug 1) 171 (2) 186-99.

Journal code: CQ9; 1246405. ISSN: 0008-8749.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199611

ENTRY DATE: Entered STN: 19961219

Last Updated on STN: 19961219 Entered Medline: 19961101

AB The severe combined immunodeficiency (scid) mutation was backcrossed onto the C57BL/6J strain background in order to study the role of natural killer (NK) cells in rejection of normal

and malignant human lymphohematopoietic cells. C57BL/6J-scid/

scid mice showed severe loss of mature T and B cells

accompanied by increased percentages of NK1.1+ cells and myeloid cells.

Although little or no serum immunoglobulin was detectable prior to 2 months of age, all mice tested had circulating immunoglobulin by

7.5 months of age. C57BL/6J-scid/scid mice

had markedly elevated levels of both hemolytic complement activity and NK cell activity compared with C57BL/6J - (+/+) controls. Weekly injections with anti-NK1.1 antibody resulted in elimination of NK cell activity in

C57BL/6J-scid/scid mice throughout 8 weeks

of treatment. Although human CEM-C7 T lymphoblastoid tumor

cells grew slowly in unmanipulated C57BL/6J-scid/

scid mice, anti-NK1.1 treatment resulted in increased

growth accompanied by ${\tt metastasis}$ of human lymphoma cells to the

brain, liver, and kidney. In contrast to T lymphoblastoid tumor

cells, nonmalignant human peripheral blood mononuclear

cells engrafted at low levels in anti-NK1.1-treated as well as in

unmanipulated C57BL/6-scid/scid mice.

Backcrossing of the beige (bgJ) mutation onto the C57BL/6-scid/scid genetic stock caused decreased NK cell activity accompanied

by granulocyte defects. C57BL/6-scid/scid bgJ)/bgJ)

mice showed metastasis of human CEM-C7 cells to the

brain and other organs but supported only low levels of engraftment with

human peripheral blood mononuclear cells. These results

demonstrate that NK cells, in the absence of an

adaptive immune system, function in resistance to metastasis of

human lymphomas and suggest that innate immune factors in addition to NK cell function mediate resistance to engraftment of normal human

peripheral blood leukocytes.

L10 ANSWER 7 OF 10 CANCERLIT

ACCESSION NUMBER: 96602133 CANCERLIT

DOCUMENT NUMBER: 96602133

TITLE: Effect of recombinant human interleukin 10 on tumor

metastasis (Meeting abstract).

Garaud F; Maxwell E; Li Z; Chen P; Catino J; King I; Zheng AUTHOR:

CORPORATE SOURCE: Tumor Biology Dpt, Schering-Plough Research Institute, 2015

Galloping Hill Road, Kenilworth, NJ 07033.

Proc Annu Meet Am Assoc Cancer Res, (1995). Vol. 14, pp. SOURCE:

A2779.

ISSN: 0197-016X. (MEETING ABSTRACTS)

FILE SEGMENT: ICDB LANGUAGE: English ENTRY MONTH: 199604

DOCUMENT TYPE:

Human interleukin 10 (hIL-10) inhibits macrophage function as well as proinflammatory cytokines synthesis and enhances IL-2 mediated cell mediated cytotoxicity. We studied the effect of hIL-10 on tumor metastasis in various murine and human tumor cell lines. Experimental lung metastases were obtained after intravenous injection of B16-F10 murine melanoma cells in C57/BL6, athymic nu/nu, and beige mice. Spontaneous lung metastases were obtained by subcutaneous injection of M27 Lewis Lung carcinoma cells in C57/BL6 and Lox human melanoma cells in SCID mice, respectively. hIL-10 (100 ug/kg) was injected intraperitoneally using various dosing schedules. Daily injection of hIL-10 significantly reduced the number of lung metastases in both spontaneous and experimental models. Inhibition ranged from 36.7 to 70.5% for B16-F10, 48 to 90.9% for M27, and 60.9 to 78.7% for Lox, respectively. Administration of hIL-10 for 3 days starting from the same day of tumor inoculation resulted in an inhibition rate comparable to daily administration for 9 days in the experimental metastasis B16F10 model (43-58.8%). A similar inhibitory effect was observed in athymic nu/nu mice (32-58.1%), but not in beige mice (5.3%). No direct cytotoxic effect was observed when tumor cells were treated with hIL-10 up to 1 ug/ml in vitro. These results demonstrate that hIL-10 has an inhibitory effect on the growth of lung metastases in animals inoculated with B16, M27 and Lox tumor cells. Our results also suggest a possible involvement of NK cells in the inhibitory effect of IL-10.

L10 ANSWER 8 OF 10 MEDLINE DUPLICATE 7

ACCESSION NUMBER:

94346309

MEDLINE

DOCUMENT NUMBER:

94346309 PubMed ID: 7520663

TITLE:

Evidence for nutrient modulation of tumor phenotype: impact

of tyrosine and phenylalanine restriction.

AUTHOR:

Elstad C A; Meadows G G; Aslakson C J; Starkey J R

CORPORATE SOURCE: Department of Pharmaceutical Sciences, College of Pharmacy,

Washington State University, Pullman 99164.

CONTRACT NUMBER:

CA42465 (NCI)

SOURCE:

ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1994) 354

171-83.

Journal code: 2LU; 0121103. ISSN: 0065-2598.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199409

ENTRY DATE:

Entered STN: 19941005

Last Updated on STN: 19970203 Entered Medline: 19940922

AB We have shown that Tyr and Phe restriction suppresses the malignant phenotype of the highly invasive and metastatic BL6 variant of B16 murine melanoma. Lung-colonizing abilities of Tyr- and Phe-modulated in vivo and in vitro variants of BL6 are inhibited following

intravenous inoculation into mice fed normal diet. Although this antimetastatic effect of Tyr and Phe restriction is most likely not due to differences in attachment to endothelium, our data indicate that major impacts of Tyr and Phe restriction are at the level of the tumor, itself. Modulation of host immune responses, which in turn suppresses metastasis, does not appear to contribute significantly to the altered phenotype. Although numbers and function of T cells, mast cells, and NK cells are affected by Tyr and Phe restriction, they are not involved in the Tyr- and Phe-mediated suppression of tumor growth, metastasis, or angiogenesis. Our data do not rule out the importance of other host factors involved in the Tyr and Phe modulation of tumor phenotype. The outcome of this modulation results most likely from complex Tyr/Phe-tumor-host interactions.

L10 ANSWER 9 OF 10 MEDLINE DUPLICATE 8

ACCESSION NUMBER: 92208105 MEDLINE

DOCUMENT NUMBER: 92208105 PubMed ID: 1804312

TITLE: In situ activation of mouse lung macrophages by

coadministration of liposomes containing the lipopeptide CGP 31362 and interleukin 2 involves interaction with T

lymphocytes and natural killer cells.

AUTHOR: Utsugi T; Dinney C P; Killion J J; Brown D; Fidler I J

CORPORATE SOURCE: Department of Cell Biology, University of Texas M. D.

Anderson Cancer Center, Houston 77030.

CONTRACT NUMBER: CA-16672 (NCI)

R35-CA 42107 (NCI)

SOURCE: LYMPHOKINE AND CYTOKINE RESEARCH, (1991 Dec) 10 (6) 487-93.

Journal code: A3G; 9107882. ISSN: 1056-5477.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199205

ENTRY DATE: Entered STN: 19920515

Last Updated on STN: 19970203 Entered Medline: 19920507

AB These studies were undertaken to determine the mechanism for augmented tumoricidal activity of alveolar macrophages (AM) in mice injected intravenously with multilamellar liposomes containing a lipopeptide analogue of Gram-negative bacteria cell wall (MLV-CGP 31362) and intraperitoneally with interleukin 2 (IL-2). BALB/c mice were injected into the kidney with syngeneic renal carcinoma cells. Ten days later, this kidney was resected, and the mice were treated intravenously with MLV-CGP 31362 and/or intraperitoneally with IL-2. Treatment with MLV-CGP 31362 led to a reduction in the number of lung metastases, whereas treatment with IL-2 alone did not. The coadministration of intravenous liposomes and intraperitoneal IL-2 produced significant eradication of lung metastases. MLV-CGP 31362 (iv) and IL-2 (ip) were injected both into control immune-competent and nude mice or into mice whose natural killer (NK) cells had been depleted by systemic administration of anti-asialo GM1 antibodies. MLV-CGP 31362 activated tumoricidal properties in AM of all groups of mice. The additive tumoricidal activation of AM by IL-2 was associated with its effects on both T cells and NK cells.

L10 ANSWER 10 OF 10 MEDLINE DUPLICATE 9

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TITLE: A mechanism by which human breast carcinoma cells escape

the host immune system.

AUTHOR: Hakim A A

CORPORATE SOURCE: Department of Internal Medicine, Stritch School of

Medicine, Evanston, Illinois.

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AB The experiments described in this study examined cell membrane oligosaccharides, malignancy-related cell phenotypes and tumor cell susceptibility to the killing effect of human cytotoxic cells. Short term breast carcinoma (BCa) cell lines were prepared from biopsies obtained from patients at each of the pathological Stages I, II, III and from patients with disseminated liver metastasis. Five patients at each stage donated the tissue. To obtain large enough quantities, the cells were cultured as monolayers for a brief period, then transferred to roller bottles using serum-free hormone defined medium. Natural killer (NK) cells, lymphokine (IL-2)-activated killer (LAK), tumor-infiltrating lymphocytes (TIL) and peripheral cytotoxic lymphocytes (CTL) from patients with BCa at PS I were used as the effector cells. Susceptibility of the tumor cells to the killing effects of the effector cells was monitored by the well established 4 h 51Cr-release assay technique. Growth factor expression, oncogenicity in athymic female mice and coloniquenicity in soft agar were used as parameters to monitor breast carcinoma cell malignancy phenotypes. The cell membrane oligosaccharides were determined from the carbohydrate elution profiles from BioGel P-6 columns. The results indicate a correlation between progression of malignancy from PS I to the metastatic stage PS IV, and the magnitude of malignancy phenotypes, resistance to the host killer cells and oligosaccharide profile shift to a higher molecular size with increased sialylation and fucosylation of the carbohydrate moieties.